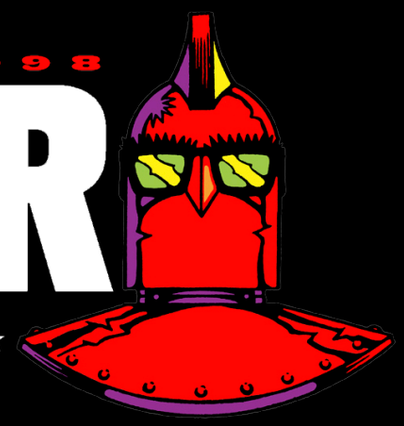
Adventure Time

PENDLETON WARD

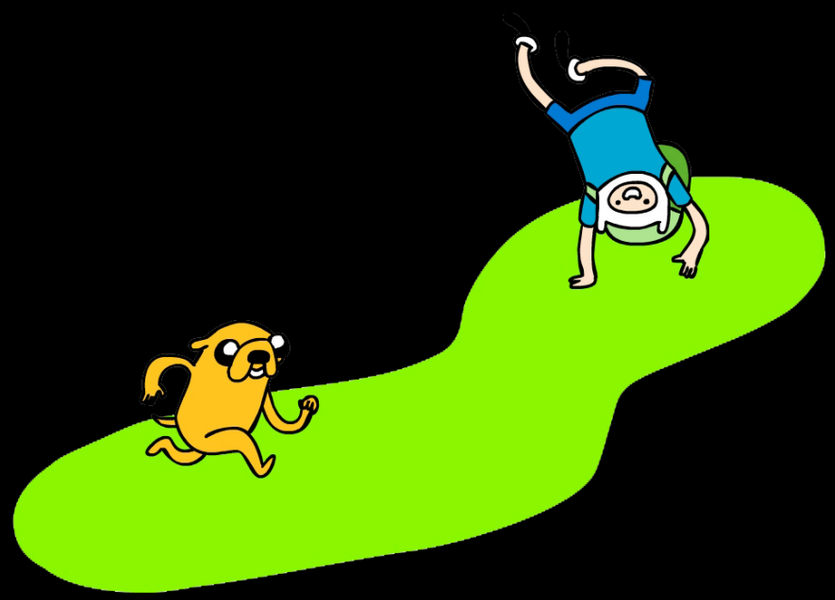
ORIGINAL CARTOONS SINCE 1998

FREDERATOR

STUDIOS ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★



3 million



“lol me and my friends where adventure time for san japan, i was the ice king =)”

--gsruler

One of over 6000 YouTube commenters

“Wow this was from nick? seemed more like Adult Swim stuff to me...”

--jinnrummy

One of over 6000 YouTube commenters

“WHAT THE SHIT THIS IS AWESOME!! 1111”

--EthanE3Eves

One of over 6000 YouTube commenters

MY HAT. IS. AWESOME!

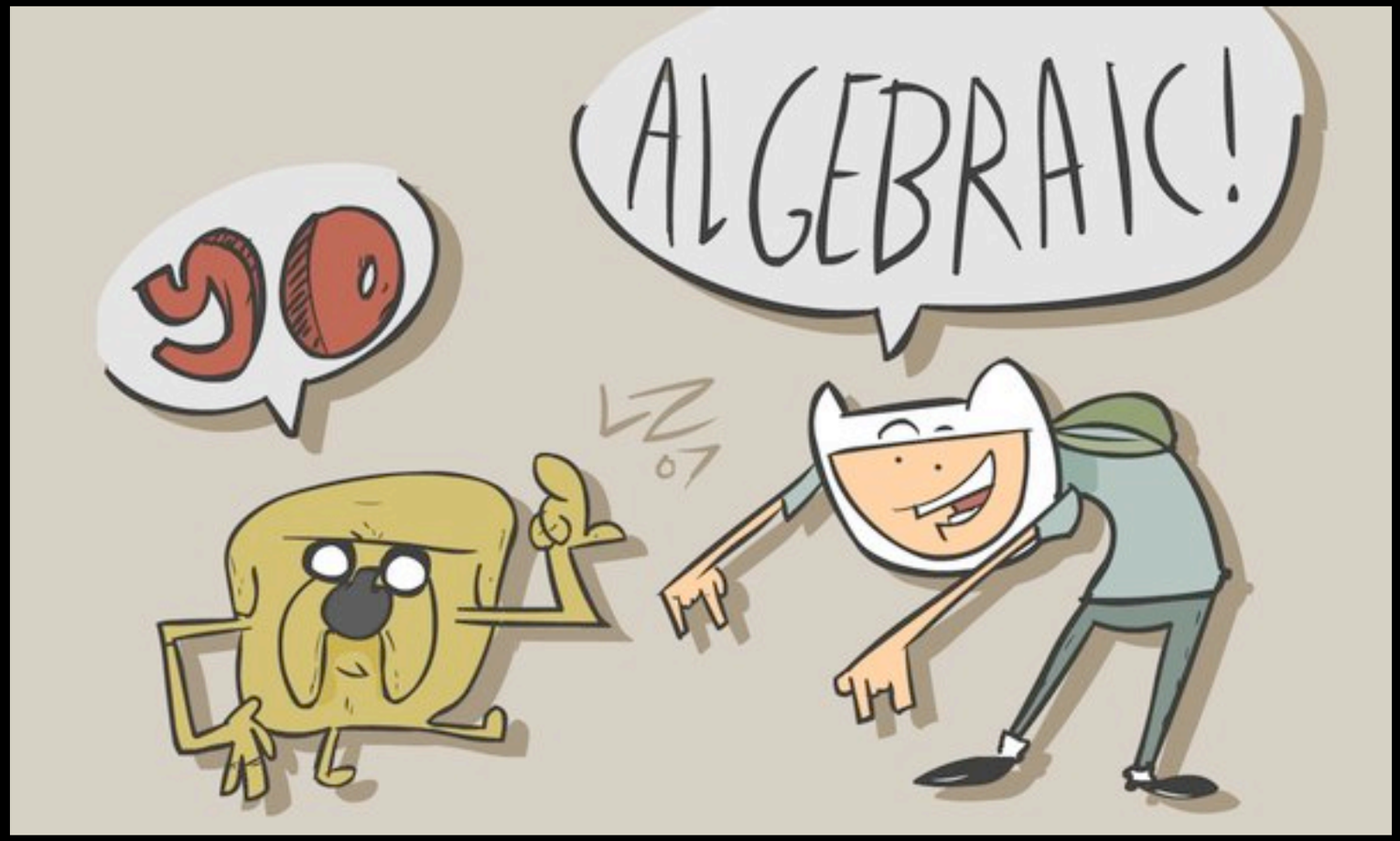
"MY HAT
IS AWESOME!!"

MY HAT IS AWESOME!

the hat of
awesomeness

BOOTIES!

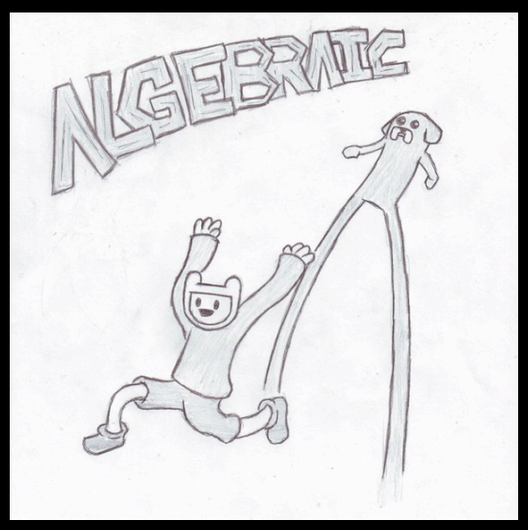
Algebraic!

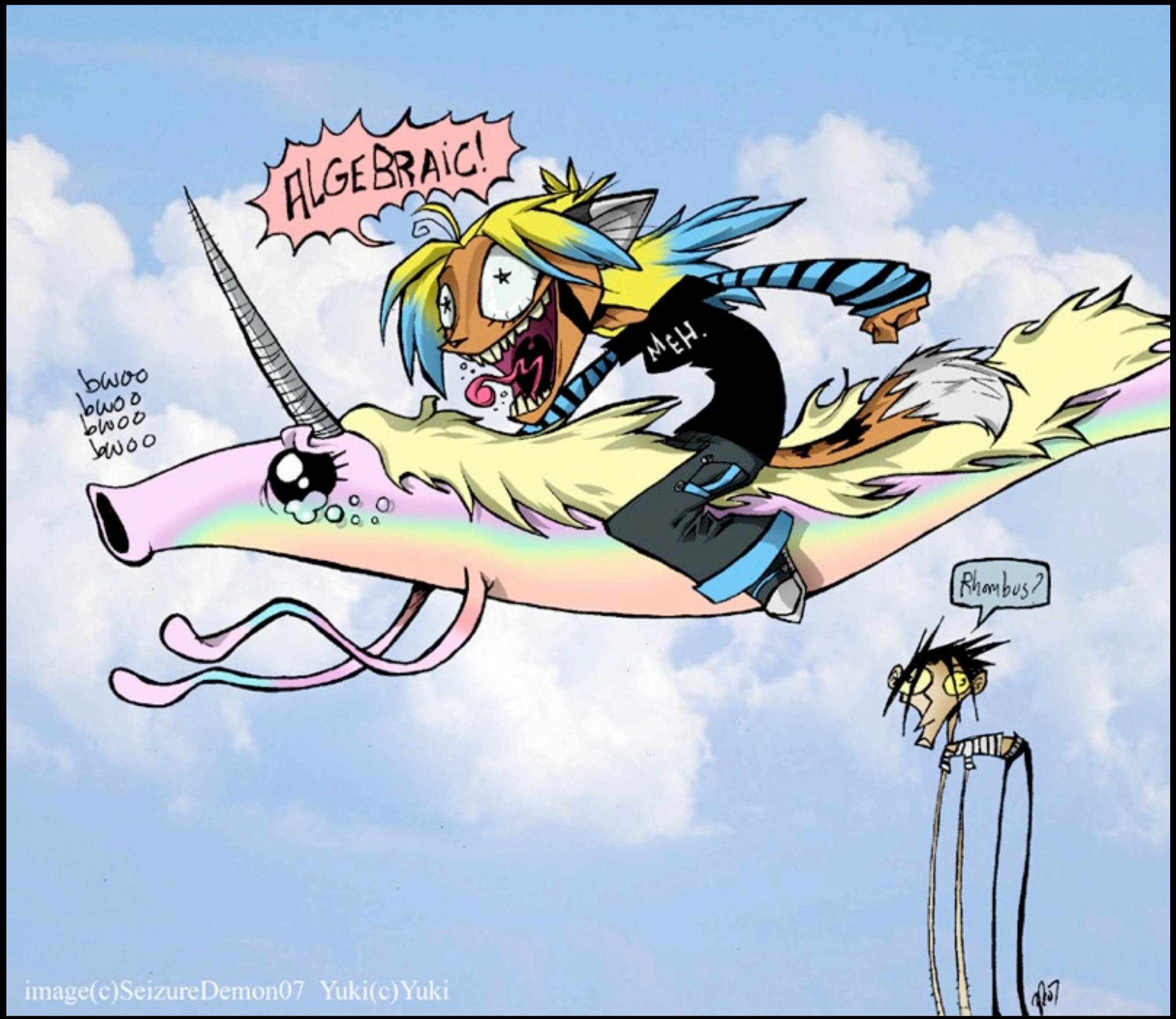

ALGEBRAIC!

You see Pen, etiquette can be the greatest adventure of all!
Algebraic!

ALGEBRAIC!

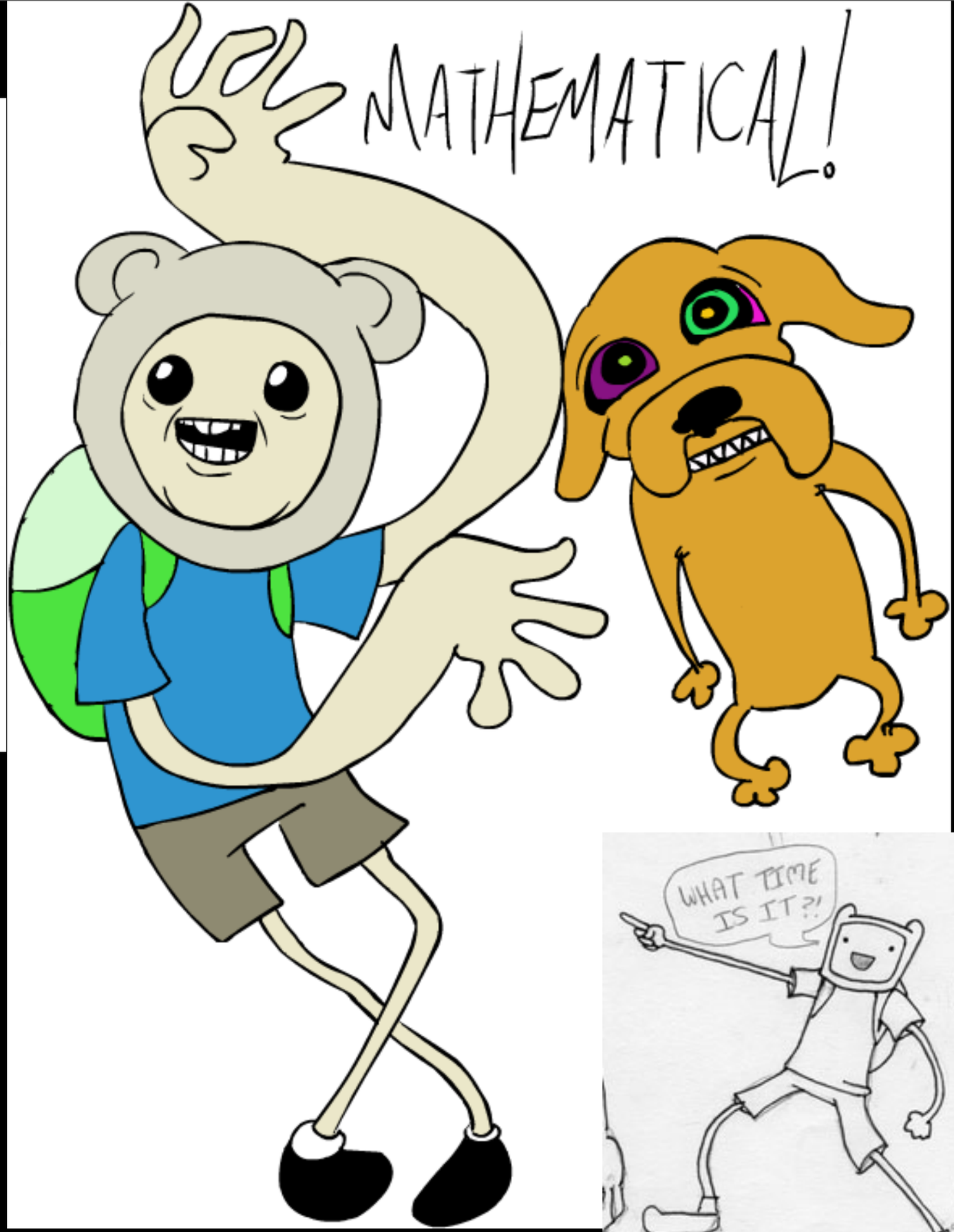
ALGERBRAIC!
Happy 19th Birthday Bro.
Molly

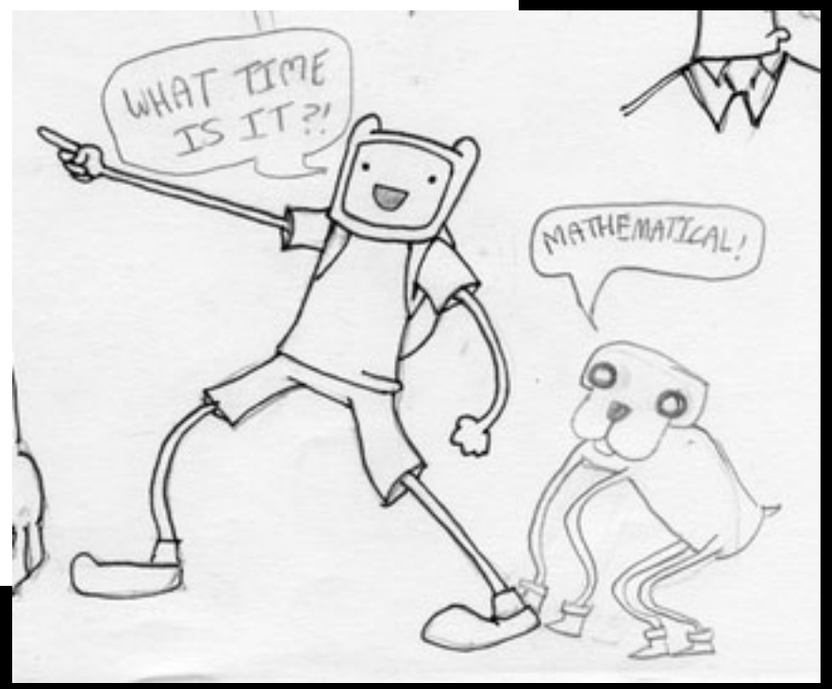

ALGEBRAIC



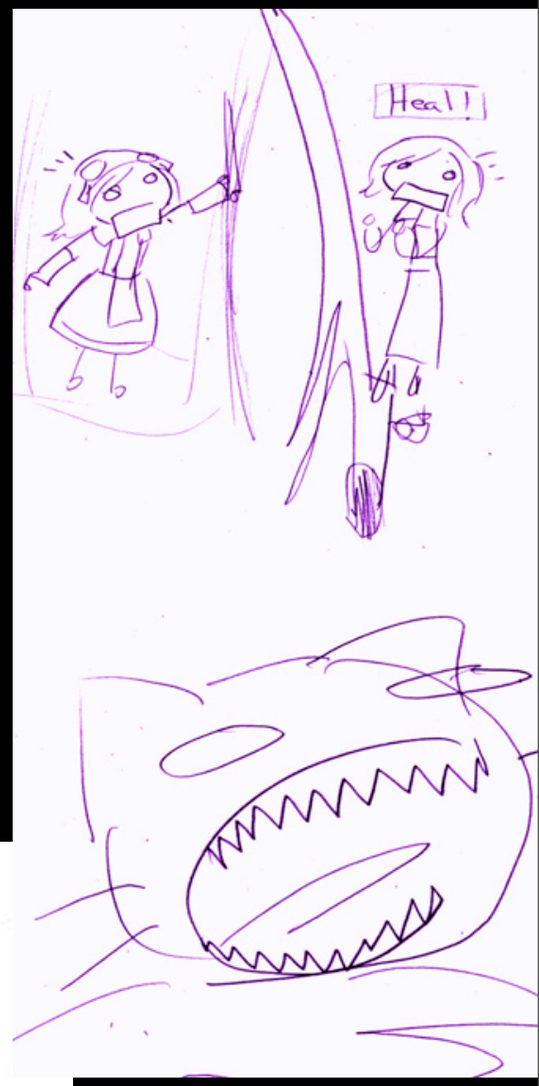
image(c)SeizureDemon07 Yuki(c)Yuki

Rhombus!
NATE HIGLEY 2006

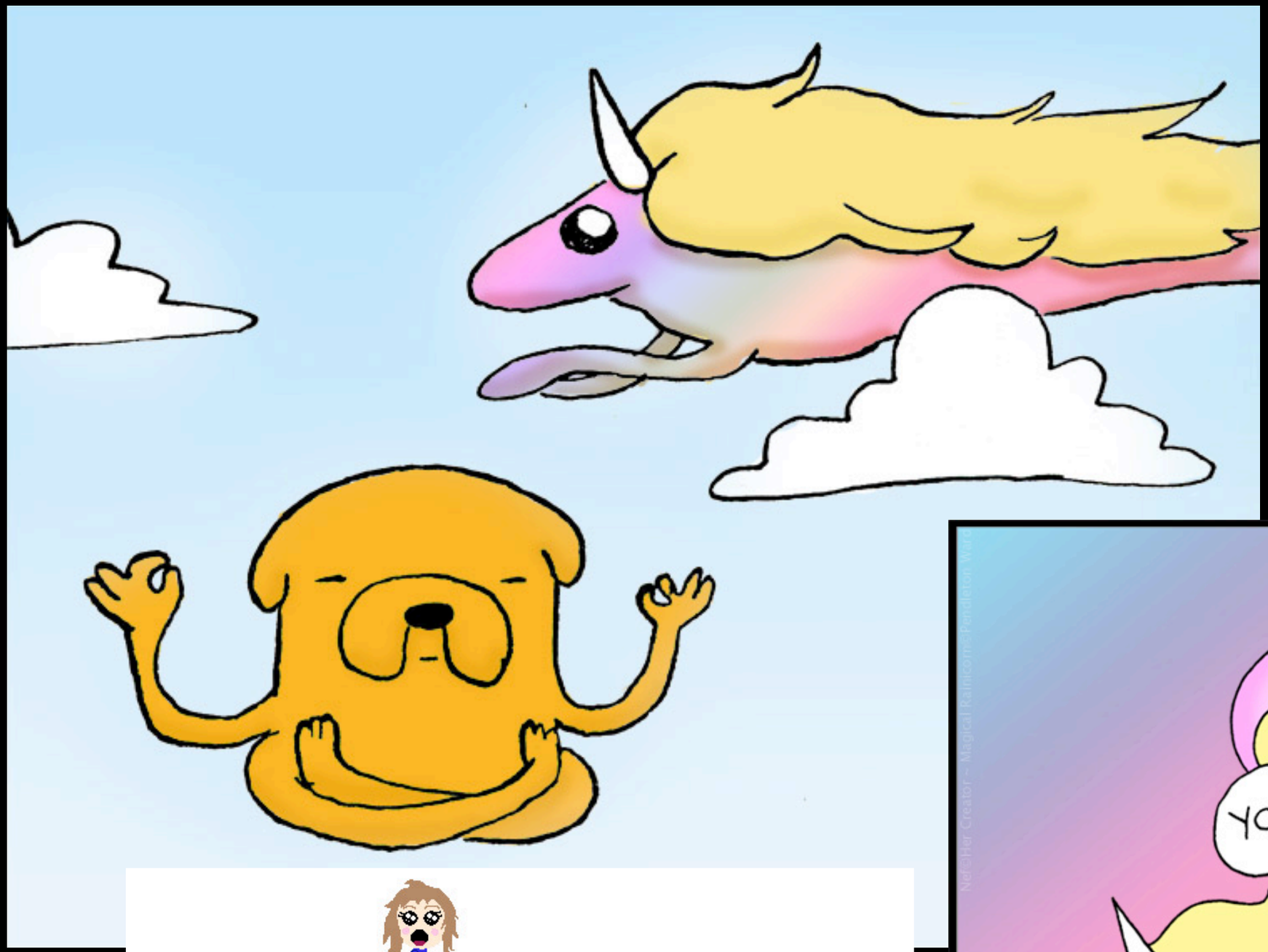

MATHEMATICAL!


WHAT TIME IS IT?!
MATHEMATICAL!

WHUT?
YO.


Heal!

MATHEMATICAL!



yay
happy birthday nef
Luv and Hugs
Raye XXX

ADVENTURE
TIME

ADVENTURE
TIME

Adventure Time!

created by Pendelton Ward

Why are you always stealing ladies?

i'm going to make one of them marry me!

THAT'S STUPID!

your hat is stupid...

3

WTF

can this be true? how can it be? Nooooo!

my mom made it...

jake said it was cool.

m-my hat is...

Smells like cookies...

OVER 9000!

emo

MY HAT IS AWESOME!
Rain·d·corn
pinkfairywand.com
adventure time (c) Pendleton Ward

graph of the function has a horizontal tangent line.

57. $y = x^4 - 8x^2 + 2$

58. $y = \frac{1}{x^2}$

59. $y = x + \sin x, \quad 0 \le x < 2\pi$

60. $y = \sqrt{3}x + 2\cos x, \quad 0 \le x < 2\pi$

61. $y = -4x + e^x$

62. $y = x + 4e^x$

Writing About Concepts (continued)

In Exercises 71 and 72, the graphs of a function f and its derivative f' are shown on the same set of coordinate axes. Label the graphs as f or f' and write a short paragraph stating the criteria used in making the selection. To print an enlarged copy of the graph, go to the website www.mathgraphs.com.

71.

72.

Point

(1, −4e)

52. find the derivative of the fu

40. $f(x) = x + \frac{1}{x^2}$

42. $h(x) = \frac{2x^2 - 3x}{x}$

44. $y = 3x(6x - 5x^2)$

46. $f(x) = \frac{1}{x} + \sqrt[3]{x}$

48. $f(t) = t^{3/2} - t^{1/3} + 4$

50. $f(x) = \frac{2}{\sqrt[3]{x}} + 5\cos x$

52. $g(x) = \sqrt{x} - 3e^x$

(a) find an equation of the tangent line to the given point, (b) use a graphing utility to graph the function and its tangent line at the point, and (c) use the zoom feature of a graphing utility to confirm your

Point

(−1, 2)

(a) Between which two given points is the average rate of change of the function greatest?

(b) Is the average rate of change of the function between A and B greater than or less than the instantaneous rate of change at B?

(c) Sketch a tangent line to the graph between C and D such that the slope of the tangent line is the same as the average rate of change of the function between C and D.

68. ...h the graph of a function f such that $f' > 0$ for all x ... rate of change of the function is decreasing.

In Exercises 69 and 70, the relationship between f and g is given. E... the relationship between f' and g'.

$f'(x) = \frac{y_0 - y}{x_0 - x}$.

77. $f(x) = \sqrt{x}$

$(x_0, y_0) = (-4, 0)$

78. $f(x) = \frac{2}{x}$

$(x_0, y_0) = (5, 0)$

79. *Linear Approximation* Use a graphing utility (in ... mode) to zoom in on the graph of $f(x) = 4 - \frac{1}{2}x^2$ to appro... mate $f'(1)$. Use the derivative to find $f'(1)$.

80. *Linear Approximation* Use a graphing utility (in ... mode) to zoom in on the graph of $f(x) = 4\sqrt{x} + 1$ to appr...

BLOG

TUMBLELOG

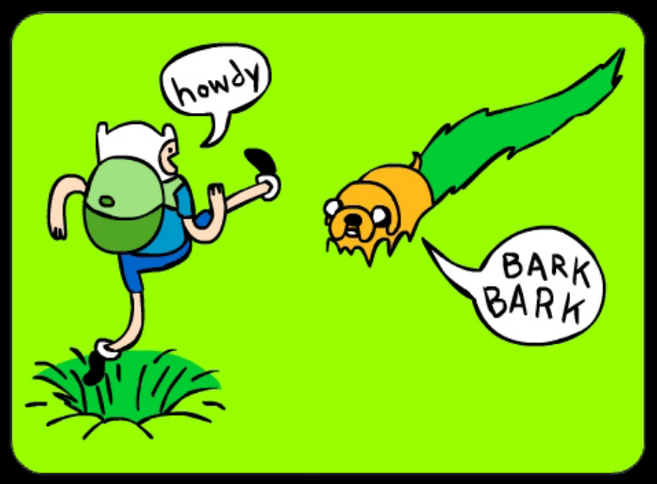
P.S.A.

L.A.R.P.

Adventure Time!

BLOG

www.adventuretime.tv



TUMBLELOG

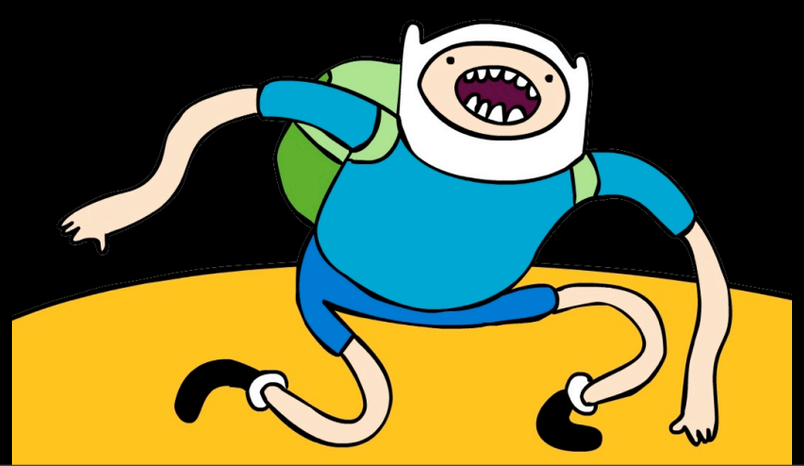
www.
adventuretime.tumblr
.com

P.S.A.

Public Service Announcements

L.A.R.P.

Live Action Role Playing



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